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Philosophical Transactions

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The Longitudes, Latitudes, right Ascensions, and Declinations of the chiefest fixt Stars according to the best Observers; in a Letter from Mr. Edward Bernard, to the reverend and learned Dr. Rob. Huntington Provost of Trinity College near Dublin in Ireland.

Edvardus Bernardus Roberto Huntingtonio S.

DUm dies aliquot rigidissimæ omnium brumæ, quarum apud vivos memoria, in Museo Mertonensi, ubi te nuper ac olim novimus, ego forte comburerem, crudamque tui absentiam oportunitate loci quadantenus lenirem: inter codices tuos Arabicos (numeras autem plus quadraginta doctrinæ & observationis Sideralis refertis) in Tabulis Ilchanicis studio Persæ præclari Choagæ Nasirodini Tusii factum offendi, ut precipui honoris stellas fixas secundum variorum Astronomorum varia observata, quæ Latæ ut Loquuntur, quæve illæ Longæ in cælo deprehendebantur, brevis pagina repræsentaret. Hoc ergo Canonion partim ex tuo peculio, ut vides, partim ab aliis adauxi. Non equidem quasi rem magnam mihi viderer adeo fecisse. Verum ut nostri homines sensum ac opinionem aliquam concipiant Astronomiæ Orientis, ubi ars ea primum nata constat: aut subtiliora adhuc desiderent pro otio nostro ex Arabum Almagestis exponenda: aut potissimum, ut tu, Vir charissime, amicitiae nostræ tesseram habeas non obscuram, sed notam tibi ac familiarem. Multa sane commendant Astronomiam Orientalium. Felicitas quidem & claritas regionum, ubi observatum: Machinarum granditas & accuratio, quantas plerique nostri credere nolunt cælo ipsos obvertisse. Contemplantium insuper numerus & scribentium, decuplo major quam apud Græcos Latinosque celebratur. Adde decuplo plures, munificentiores, ac potentiores Principes, qui viris boni ingenii sumtus & arma cælestia dederunt. Quid vero Astronomi Arabum in Cl. Ptolemæo, magno Constructore artis Cælestis, injuria nulla reprehenderint: quam illi sollicite temporis minutias, per aquarum guttulas, immanibus Sciotheris, imo (mirabere) fili penduli vibrationibus, jam pridem distinxerint & mensurarint: quam etiam perite & accurate versaverint in magno molimine ingenii humani, de ambitu intervalloque binorum Luminarium & nostri Orbis, una epistola narrare non debet. Bene tibi, antiquissimæ amicorum, bene philosophis Hibernis.

Dabam ex Bibliotheca vestra Orientali apud
Oxoniam VI. KAL. Apriles. CIOICLXXXIII.

b. Borealis.

*a Cl. Ptolemaeo in magna
Syntaxi an. Christi. 137.*

- | | | | |
|---------|---|--|--|
| 1. 34. | U | Ultima Fluvii. ὁ ἐξ αὐτοῦ ποταμὸς λαμπρὸς.
آخر النهر. للظلميم. أيلاذ. | Long. Latit. Magnit.
V 10 30'. 53 30' m. 1.
al. 50'. |
| 2. 12. | | Lucida cathedræ Cassiopeia. ὁ δὴ μέσος τῆς ἀνακλίστρης. كلف الخضيف. خراف بعبامو. | V 7 50'. 51 40' b. 3. |
| 3. 12. | | Persei caput Medusæum. τὸ ἐν τῇ γοργονείῳ ὁ λαμπρὸς. γοργόνιον. Algol. رأس الغول. كفال. ἱππας. rectius μορμύς. | V 29 40'. 23 0' b. 2.
al. 20'. |
| 4. 14. | | Oculus Tauri austrinus. ὁ λαμπρὸς τῶν ὕδατων δὴ τῶν ὀφθαλμῶν ὑποκρινόμενος. λαμπραῖος. ὄμμα βοῶτος. العين الثور. الدبران. | δ 12 40'. 51 0' m. 1.
al. 20'. |
| 5. 35. | | Orionis pes sinister. ὁ ἐν τῇ ἀεισεῖ ἀκρόποδι τῆς ὀρίωνος λαμπρὸς, τῶν ὕδατων κοινός. Rigel. πῦρ δίδυμων. رجل الجوزا اليسرى. | δ 20 50'. 31 30' m. 1. |
| 6. 3. | | Capella Aurigæ. ὁ ἐπ' ἀεισεῖ ὄμμα τῆς ἀνιόχου, καλέμβιος αἰζ. αἰζ. Pleiadum remora.
أليقيبوس. الجوزا.
Aliquibus humerus sinister præcedens. | δ 25 0'. 22 30' b. 1.
II 2 0'. 17 0' m. 1. |
| 7. 2. | | Orionis humerus dexter. ὁ δὴ τῆς ἀεισεῖ ὄμμα τῆς ὀρίωνος λαμπρὸς ὑποκρινόμενος. ὄμμα δίδυμων.
الجوزا.
Aliquibus humerus sinister præcedens. | II 2 0'. 17 0' m. 1. |
| 8. 1. | | Sirius in ore Canis majoris. ὁ ἐν τῇ σόματι τῆς κυνὸς λαμπρότατος, καλέμβιος κύων, ὑποκρινόμενος. σιανὴ ἱσπανική. شعري. Sirius australior.
Alhabor, العبور, γαλαντοπός. | II 17 40'. 39 10' m. 1.
al. 20'. |
| 9. 2. | | Procyon, aut Canis minor. ὁ χτὶ τῶν ὀπιδίων τῆς προκυνὸς λαμπρὸς, καλέμβιος προκύων. σιανὴ σαμική. شعري. Sirius borealior. Algomeisa, الغميصا, tamquam lippa. | II 29 30'. 16 10' m. 1.
al. 10'. |
| 10. 8. | | Cor Leonis. ὁ δὴ τῆς καρδίας τῆς λέοντος, καλέμβιος βασιλίσκος. Regulus, قلب الأسد. الملكى. | δ 2 30'. 0 10' b. 1.
al. 10'. |
| 11. 14. | | Spica Virginis. ὁ δὴ τῆς ἀεισεῖ ἀκροχείρης τῆς παρθένου, καλέμβιος σάχις. μικρὸς κονταράτος.
السماكى الأعزل, fulcrum inermis. السندل. | πρ 26 40'. 2 0' 6. |

CANON PRÆCIPUARUM E STELLIS FIXIS
SECUNDUM OBSERVATA MAJORUM.

a Cl. Ptolemæo in magna
Syntaxi an. Christi 137.

Long. Latit. Magnit.

12. 23. Arcturus. ὁ μεταξὺ τῶν μνησίων τῆ βούτου, καλέμενος }
ἀρκιῦρος, ὑπόκυρρος, κονταράτης. سماكى الراح } m 27 0'. 31 30' b. 1.
τὸ ἔρεισμα τῆ ὀπίστου.
13. 8. Antares. ἡ ἐν τῇ σώματι τῆ σκορπίου ὁ μέσος καὶ }
ὑπόκυρρος, καλέμενος ἀντάρης. καρδία σκορπίου, } m 12 40'. 4 0' m. 2.
قلب العقرب. } al. 20'.
14. 1. Caput Ophiuchi. ὁ ἐπὶ τῇ κεφαλῇ τῆ ὀφίουχου. }
الرأس الراعي, ὁ ποιμὴν. } m 7 24 50'. 36 0' b. 3.
15. 1. Lucida Lyræ. ὁ λαμπρὸς ἐπὶ τῇ ὀστᾷ, καλέμενος }
λύρα. γυφ. κατεμύθου, النسر الواقع. } + 17 20'. 62 0' b. 1.
16. 3. Aquilæ lucida. ὁ ἐπὶ τῇ μεταφρένι τῆ αἰετὸς λαμ- }
πρὸς, καλέμενος αἰετός. γυφ. πετόμενος, النسر } m 3 50'. 29 10' b. 2.
الطائر.
17. 5. Lucida in cauda Cygni. ὁ ἐν τῇ ἑρᾷ τῇ ὀρνιθὸς }
λαμπρὸς. ἑρᾷ ὀρνιθὸς, ردف. ذنب الدجاجة, } m 9 10'. 60 0' b. 2.
διάδοχος.
18. 3. Lucida in crure dextro Pegasi. ὁ ἐπὶ τῇ δεξιᾷ }
ἄμω τῆ ἵππου καὶ τῆς τῆ ποδὸς ἐκφύσεως. Scat. } m 2 10'. 35 0' b. 2.
ἄμω ἵππου. منكب الغرس.
19. 2. Alæ Pegasi ultima. ὁ ἐπὶ τῆς ὀσφύος τῆ ἵππου }
καὶ ἄκρου τῆ πτέρυγος αὐτῆς. πύλασος. Algenib. } m 12 10'. 12 30' b. 2.
الفرع الموتر, جناح الغرس.
20. 7. Persei lucidum latus. ὁ ἐν τῇ δεξιᾷ πλάτῃ τῆ }
περσέως λαμπρὸς. πλάτῃ περσέως. مرقف الثريا } m 8 4 50'. 30 0' b. 2.
الكف الجذما.
21. 27. Cauda Leonis. ὁ ἐπὶ ἄκρας τῆς ἑρᾷ τῆ λέοντος. }
الصرقة. } m 24 30'. 11 50' b. 1.
22. 1. Os Piscis australis in aqua extrema. ὁ ἐν τῇ }
σώματι τῆ ἰχθύος τῆ νοτίου. σωμα ἰχθύος μέσση. } m 7 0'. 23. 0' m. 1.
قم الحوت الجنوبي.
23. 44. Canopus. ἡ ἐν τῇ νοτίᾳ πηδαλίᾳ τῆς ἀργεῖς ὁ προη- }
γούμενος, καλέμενος χάνωος. σάλλ ἱσμανῆς. سماك اليمى } m 11 7 10'. 75 0' m. 1.
اليمن, quasi sidus benignum.

[570]
PRÆCIPUARUM FIXARUM CANON JUXTA
OBSERVATIONES SELECTAS.

	ε. <i>Ali Abolcasimo</i> anno Christi 938.	γ. <i>Abdoramano</i> <i>Sophio an. Christi</i> 964. <i>Is cum Ptole-</i> <i>mæ convenit κατὰ</i> <i>πλάτος.</i>
	Longit. Latit.	Longit.
1 Ultima fluvii.	0. 11, 50'. 53 30'	0 12 53'
2 Lucida cathedræ Cassiepeïæ.	0. 20, 20'. 51 45'	0 20 32'
3 Persei caput Medusæum.	1. 12, 17'. 22 45'	1 12 22'
4 Oculus Tauri austrinus.	1. 24, 35'. 5 15'	1 25 22'
5 Orionis pes sinister.	2. 2, 1'. 31 4'	2 2 32'
6 Capella Aurigæ.	2. 6, 49'. 22 50'	2 7 42'
7 Orionis humerus dexter. <i>Non</i> <i>nullis humerus sinister præcedens.</i>	2. 13, 16'. 16 45'	2 14 42'
8 Sirius.	2. 29, 30'. 39 20'	3 0 22'
9 Procyon.	3. 10, 40'. 16 0'	3 11 12'
10 Cor Leonis.	4. 34, 40'. 0 15'	4 15 12'
11 Spica Virginis.	6. 8, 23'. 2 6'	6 9 22'
12 Arcturus.	6. 8, 50'. 31 12'	6 9 42'
13 Antares.	7. 24, 35'. 4 24'	7 25 22'
14 Caput Ophiuchi.	8. 6, 53'. 36 0'	8 7 32'
15 Lucida Lyræ. Vultur cadens.	9. 0, 40'. 61 45'	9 0 2'
16 Aquilæ lucida. Vultur Volans.	9. 15, 53'. 29 12'	9 16 32'
17 Lucida in cauda Cygni.	10 20, 4'. 59 36'	10 21 52'
18 Lucida in crure dextro Pegasi.	11. 14, 0'. 31 10'	11 14 52'
19 Alæ Pegasi ultima.		11 24 52'
20 Persei lucidum latus.	1. 16, 15'. 30 8'	1 17 32'
21 Cauda Leonis.	5. 6, 40'. 11 50'	5 7 12'
22 Os Piscis australis.		10 18 12'
23 Canopus.		2 29 52'

CANON PRÆCIPUARUM ESTELLIS FIXIS SECUNDUM OBSERVATA MAJORUM.

3. Ebnolalamo an. 1. Ex Canonibus 5. Choaga Nasfro- 7. Ex Sultanicis n. Abdolga-
Christi 980. Hacimicis Joha- dino Tufio in Ta- Ologbeci anno lilo Segazio
nida Egyptij an. bulis Ilchanicis an. Christi. 1437. in Geneth-
Christi 996. Chr. 1233. liacis anno
Chr. 1261.

Longit.	Latit.	Longit.	Latit.	Longit.	Latit.	Longit.	Latit.	Longit.	Latit.
01.6,42'.53,30'	0.16,20'.53,28'	0.24,55'.51,45'	0.15,40'.53,45'	0.6,45'					
0.24,9'.51,45'	0.24,34'.51,50'	0.24,35'.51,40'	0.28,1'.50,48'	0.25,2'					
1.15,1'.22,45'	1.15,24'.22,39'	1.16,25'.23,0'	1.18,54'.22,0'	1.16,52'					
1.28,40'.5,15'	1.29,7'.5,15'	1.29,22'.5,13'	2.2,31'.5,15'	1.29,45'					
2.5,55'.31,20'	2.5,30'.31,35'	2.6,35'.31,30'	2.9,25'.31,18'	2.6,52'					
2.10,50'.22,50'	2.11,32'.22,3'	2.11,10'.22,40'	2.14,43'.22,42'	2.11,43'					
2.17,21'.16,45'	2.17,46'.16,50'	2.18,0'.16,50'	2.21,13'.16,43'	2.19,12'					

3.3,40'.39,20'	3.4,2'.39,30'	3.3,50'.39,10'	3.6,19'.39,30'	3.4,28'					
3.15,45'.16,0'	3.15,52'.16,2'	3.15,45'.16,5'	3.18,22'.16,0'	3.16,11'					
4.18,45'.0,15'	4.19,10'.0,10'	4.19,14'.0,17'	4.22,13'.0,9'	4.19,42'					
6.12,33'.2,6'	6.12,58'.2,10'	6.13,25'.1,52'	6.16,10'.2,9'	6.13,26'					
6.12,55'.31,12'	6.13,49'.31,33'	6.13,0'.31,25'	6.16,31'.31,18'	6.13,47'					
7.28,40'.4,24'	7.29,9'.4,25'	7.29,0'.4,10'	8.2,16'.4,30'	7.29,45'					
8.11,2'.36,0'	8.11,34'.35,59'	8.11,15'.35,55'	8.15,13'.55,51'	8.11,49'					
9.4,45'.61,45'	9.5,0'.61,55'	9.4,40'.61,50'	9.8,19'.62,0'	9.5,38'					
9.20,58'.29,14'	9.20,34'.29,10'	9.20,40'.29,15'	9.24,10'.29,15'	9.20,56'					
10.24,9'.59,36'	10.23,31'.59,38'	10.24,30'.59,50'	10.28,46'.59,42'	10.26,15'					
11.18,54'.31,10'	11.18,44'.31,12'	11.18,44'.31,12'	11.21,37'.30,51'	11.18,58'					
11.24,52'.2,30'		11.18,55'.31,1'	0.1,22'.12,34'						

* Non vidit unquam nepos Timuri
clarum Canopum; non ceteri hujus Ca-
nonis, exceptis Alexandrinis.

1.21,35'.30,0'	1.25,7'.29,21'	1.22,2'			
5.11,55'.11,50'	5.13,49'.12,0'	5.11,38'			
10.23,45'.23,0'	10.20,40'.21,30'	10.23,53'			
3.3,55'.75,0'	*	3.4,3'			

PRÆCIPUARUM FIXARUM CANON JUX-
TA OBSERVATIONES SELECTAS.

	θ <i>Ex Persicis</i> <i>Chrysoceca</i> <i>anno Chr.</i> 1115.	ι <i>Ex Canoni-</i> <i>bus Persarum</i> <i>Pembrochianis</i> <i>an Chr.</i> 1346. <i>Melixa</i> 338.
	<i>Longit.</i>	<i>Longit.</i>
1 Ultima fluvii.	✓ 15 10'	0'
2 Lucida cathedræ Cassiopeiæ.	✓ 22 50'	0'
3 Persei caput Medusæum.	8 14 40'	18 10'
4 Oculus Tauri austrinus.	8 27 0'	II 1 30'
5 Orionis pes sinister.	II 4 50'	8 20'
6 Capella Aurigæ.	II 10 50'	13 3'
7 Orionis humerus dexter. <i>Non-</i> <i>nullis</i> humerus sinister præcedens.	II 17 0'	20 30'
8 Sirius.	☉ 2 40'	18 0'
9 Procyon.	☉ 14 10'	18 0'
10 Cor Leonis.	♋ 17 30'	9 31'
11 Spica Virginis.	♍ 11 40'	15 10'
12 Arcturus.	♍ 12 0'	15 30'
13 Antares.	♋ 27 40'	→ 1 10'
14 Caput Ophiuchi.	0'	0'
15 Lucida Lyræ. Vultur cadens.	♌ 2 20'	5 0'
16 Aquilæ Lucida. Vultur Volans.	♌ 18 50'	22 20'
17 Lucida in cauda Cygni.	☞ 24 10'	10 20'
18 Lucida in crure dextro Pegasi.	♋ 17 10'	20 40'
19 Alæ Pegasi ultima.	♋ 27 10'	0'
20 Persei lucidum latus.	8 19 50'	0'
21 Cauda Leonis.	0'	np 13 0'
22 Os Piscis australis.	☞ 22 0'	0'
23 Canopus.	II 2 10'	0'

PRÆCIPUARUM FIXARUM CANON JUXTA OBSERVATIONES SELECTAS.

1a Ex Codice
Arnoldino a-
pud Gassen-
dum pro anno
Christi 1364.

Longit.

V 18 20'

8 17 45'

II 1 0'

II 8 0'

II 13 10'

II 18 10'

☉ 6 0'

☉ 17 20'

♌ 20 40'

♌ 15 0'

♌ 14 10'

→ 27 40'

0'

mp 5 30'

mp 22 0'

mp 27 18'

✕ 20 20'

0'

0'

0'

mp 12 40'

0'

0'

1c Ex Codicibus
Illustrum vi-
rorum Savilii
& Bodleii,
quasi pro an.
Chr. 750.

Longit.

V 12 20'

8 2 50'

8 19 50'

II 2 10'

II 9 10'

II 24 50'

☉ 6 40'

♌ 9 39'

♌ 4 50'

♌ 4 10'

mp 7 19 20'

0

→ 24

♌ 15 0'

0'

0'

0'

0

mp 1 45'

1y Mohammedi Tizinio anno
Christi 1533.

Ascens. recta.

130 17'

86 55'

130 14'

153 0'

163 43'

161 39'

173 15'

187 0'

199 0'

236 0'

285 36'

299 0'

330 57'

348 57'

38 37'

22 5'

36 40'

71 0'

88 10'

133 46'

261 20'

68 45'

183 40'

Declin.

41 0'

56 41'

39 43'

15 43'

9 13'

45 0'

6 28'

15 50'

6 5'

14 8'

8 29'

22 14'

22 42'

13 9'

5 29'

7 24'

43 50'

25 16'

12 23'

47 52'

17 55'

33 51'

51 35'

CANON PRÆCIPUARUM ESTELLIS FIXIS SECUNDUM OBSERVATA MAJORUM.

	18. Sababodino Alepenfi ad Il- chanicas pro an. Chr. 1436. Ascens. Declin.	19. Olaodino Sateridæ in Ta- bulis Damascenis anno Christi. 1480. Longit. Ascens. Declin.
1 Ultima fluvii.	132,10'.41,30'	0.20,34'.129,30'.17,0'
2 Lucida cathedræ Cassiopeiæ.	84,2'.55,45'	0.18,16'.83,50'.55,50'
3 Persei caput Medusæum.	127,44'.39,4'	1.20,4'.127,55'.38,50'
4 Oculis Tauri austrinus.	150,40'.15,20'	1.3,4'.149,50'.15,0'
5 Orionis pes sinister.	162,20'.9,20'	0.167,50'.5,10'
6 Capella Aurigæ.	158,30'.44,43'	2.15,24'.157,40'.44,40'
7 Orionis humerus dexter. Non- nullis humerus sinister præcedens.	171,55'.6,15'	2.22,24'.170,10'.6,10'
8 Sirius.	185,45'.15,43'	4.4,4'.184,20'.15,45'
9 Procyon.	197,25'.6,7'	4.19,44'.196,30'.6,30'
10 Leonis.	234,0'.15,10'	4.24,44'.233,30'.15,5'
11 Spica Virginis.	283,40'.7,30'	6.16,30'.283,50'.7,30'
12 Arcturus.	297,39'.33,8'	6.17,24'.297,0'.23,30'
13 Antares.	331,0'.24,12'	8.3,4'.322,0'.24,15'
14 Caput Ophiuchi.	347,5'.13,20'	
15 Lucida Lyræ. Vultur cadens.	38,32'.4,20'	9.7,44'.4,0'.38,30'
16 Aquilæ iucida. Vultur Volans.	20,5'.7,3'	9.24,14'.20,0'.7,5'
17 Lucida in cauda Cygni.	36,20'.43,15'	35,10'.4,30'
18 Lucida in crure dextro Pegasi.	68,50'.24,30'	11.22,34'.68,20'.24,0'
19 Alæ Pegasi ultima.	85,54'.11,30'	0.2,34'.85,5'.11,30'
20 Persei lucidum latus.	130,20'.47,11'	127,20'.1,40'
21 Lauda Leonis.	259,30'.17,55'	5.14,54'.259,5'.18,10'
22 Os Piscis australis.	67,25'.35,2'	10.24,24'
23 Canopus.	183,30'.5,25'	181,15'.51,50'

CANON PRÆCIPUARUM STELLIS FIXIS SECUNDUM OBSERVATA MAJORUM.

Ex Tabulis Rodolphi Riccioli Bononiensis in Astronomia Reformatata
anno Christi, 1660.
ad Contemplationes Tychoonis Braheii.

	Longit.	Latit.	Longit.	Latit.	Ascens.	Declinat.
1.	V. 21, 12.	53, 32.	V. 22, 0', 14".	53, 30, 0.		
2.	V. 29, 35½.	51, 14½.	8. 0, 22, 0".	51, 17, 0".	357, 44', 33".	57, 18', 40".
3.	8. 20, 37'.	22, 22'.	8. 21, 32', 10".	22, 22', 40".	41, 33, 54".	39, 36, 30".
4.	II. 4. 12'.	5, 31'.	II. 5, 1', 43".	5, 30, 50".	64, 6', 58".	15, 46', 10".
5.	II. 11, 37'.	31, 11'.	II. 12, 3', 10".	21, 10', 10".	74, 32', 38".	8, 37', 30".
6.	II. 16, 16'.	22, 50½.	II. 17, 6', 15".	22, 51', 45".	72, 52, 20".	45, 36', 0".
7.	II. 15, 23'.	16, 63'.	II. 16, 13', 0".	16, 52, 30".	76, 45', 4".	5, 59', 50".
8.	☉. 8, 35½.	39, 30'.	☉. 9, 3', 0".	39, 32', 5".	97, 30', 18".	16, 16', 30".
9.	☉. 20, 18½.	15, 57'.	☉. 21, 6', 30".	15, 57', 10".	110, 22', 32. 6, 4', 0".	
10.	♌. 24, 17'.	0, 26½.	♌. 26, 4', 45".	0, 26', 20".	147, 31', 14".	13, 36', 30".
11.	♌. 18, 16'.	1, 59'.	♌. 19, 6, 0.	1, 59', 30".	196, 51', 0".	9, 20', 30".
12.	♌. 18, 39½.	31, 2½.	♌. 19, 30', 4"0.	31, 0, 40".	210, 4', 38".	20, 59', 50".
13.	♊. 4, 13'.	4, 27'.	♊. 5, 1', 40".	4, 26, 30".	242, 10', 40".	25, 33', 30".
14.	♊. 16, 50'.	35, 57'.	♊. 17, 43', 20".	35, 56', 15".	259, 47', 14".	12, 52', 30".
15.	♊. 9, 43'.	61, 47½.	♊. 10, 32', 40".	61, 47, 0".	276, 19', 32".	30, 50', 40".
16.	♊. 26, 9'.	29, 21½.	♊. 26, 58', 30".	29, 20', 40".	293, 31', 59".	8, 1', 20".
17.	♊. 29, 53½.	59, 56½.	♊. 0, 41', 25".	59, 57, 20".	307, 26', 35".	44, 6', 40".
18.	♊. 23, 49½.	31, 7½.	♊. 24, 40', 20".	31, 8', 20".	341, 51', 48".	29, 15', 50".
19.	♊. 3, 28½.	12, 35'.	♊. 4, 26', 20".	12, 37', 0".	358, 57', 0".	13, 19', 20".
20.	8. 26, 17'.	30, 5'.	8. 27, 0', 8".	30, 5', 40".	44, 52', 30".	48, 34', 30".
21.	♏. 16, 3'.	12, 18'.	♏. 16, 53', 0".	12, 16', 20".	172, 53', 58".	16, 27', 40".
22.	♏. 28, 11½.	21, 0'.	♏. 29, 2', 56".	20, 59, 40".	339, 37, 0".	31, 2', 10".

[574]
 ., PRÆCIPUARUM FIXARUM DISTANTIÆ JUXT
 OBSERVATIONES SELECTAS.

- | | |
|--|---|
| 1 Ultima fluvii. | 1. 0. |
| 2 Lucida cathedræ Cassiepeïæ. | 2. à Seat 33, 4'. à cauda cygni 33, 32 $\frac{1}{2}$ '. |
| 3 Perfei caput Medusæum. | 3. à latere Perfei 9, 23 $\frac{1}{2}$ '. à capella 23, 37'. |
| 4 Oculi Tauri austrinus. | 4. à Sirio 45, 58 $\frac{1}{3}$ '. ab Algomeisa 46, 22'. |
| 5 Orionis pes sinister. | 5. ab oculo tauri 26, 33'. à capella 54, 15 $\frac{1}{2}$ '. |
| 6 Capella Aurigæ. | 6. ab oculo tauri 36, 43 $\frac{1}{2}$ '. à Perfei latere 19.1 |
| 7 Orionis humerus dexter. <i>Non-</i>
<i>nullis</i> humerus sinister præcedens. | 7. ab oculo tauri 15, 47 $\frac{2}{3}$ '. |
| 8 Sirius. | 8. ab Algomeisa 25, 42'. à rigel 23, 40'. |
| 9 Procyon. | 9. à regulo 37, 20'. à rigel 38, 37 $\frac{1}{2}$ '. |
| 10 Cor Leonis. | 10. à Spica 54, 2'. à cauda cygni 24, 39 $\frac{1}{2}$ '. |
| 11 Spica Virginis. | 11. ab Arcturo 33, 2'. ab Antare. 45, 52'. |
| 12 Arcturus. | 12. à regulo 59, 49'. ab Antare 56, 4 $\frac{1}{2}$ '. |
| 13 Antares. | 13. à lucida Aquilæ 60, 9 $\frac{1}{2}$ '. à cauda Leonis 24, 1 |
| 14 Caput Ophiuchi. | 14. à Spica 36, 14 $\frac{1}{2}$ '. à lyræ lucida 29, 33 $\frac{2}{3}$ '. |
| 15 Lucida Lyræ. Vultur cadens. | 15. à Seat 55, 30 $\frac{2}{3}$ '. à Spica 9, 20 $\frac{1}{2}$ '. |
| 16 Aquilæ lucida. Vultur Volans. | 16. à lucida Lyræ 34, 9'. à cauda cygni 38, 4 $\frac{1}{3}$ '. |
| 17 Lucida in cauda Cygni. | 17. à lucida Lyræ 23, 52'. à Seat 32, 57 $\frac{1}{2}$ '. |
| 18 Lucida in crure dextro Pegasi. | 18. ab algenib 20, 37'. à lucida cath. Cassiepeïæ 22 |
| 19 Alæ Pegasi ultima. | 19. à latere Perfei 51, 45 $\frac{1}{2}$ '. |
| 20 Perfei lucidum latus. | 20. ab Oculo tauri 36, 20 $\frac{1}{3}$ '. |
| 21 Cauda Leonis. | 21. à Spica 35, 2 $\frac{1}{2}$ '. |
| 22 Os Piscis australis. | 22. 0. |
| 23 Canopus. | 23. 0. |

CANON PRÆCIPUARUM ESTELLIS FIXIS SECUNDUM OBSERVATA MAJORUM.

*A. Octo Fixarum nobilium declinationes ex curis antiquis, consulto
etiam illustri Brabec.*

	<i>Timocharidi.</i>	<i>Hipparcho.</i>	<i>Ptolemæo.</i>	<i>Tychoni.</i>
	<i>ante Chr. 295.</i>	<i>a. Chr. 128.</i>	<i>Chr. 137.</i>	<i>Chr. 600.</i>
4. Oculus Tauri.	8, 45' b.	9, 45' b.	11, 0' b.	15, 38' b.
α. 6. Capella. — — — — —	— — — — —	40, 24' b.	41, 10' b.	25, 28 $\frac{2}{3}$ '.
8. Sirius. — — — — —	15, 20' m.	16, 0' m.	16, 45' m.	16, 11' m.
β. 10. Regulus. — — — — —	21, 20' b.	20, 40' b.	19, 50' b.	13, 53 $\frac{1}{2}$ '.
γ. 11. Spica. — — — — —	1, 24' b.	0, 36' b.	0, 36' m.	9, 1' m.
12. Arcturus. — — — — —	31, 30' b.	31, 0' b.	29, 50' b.	21, 18 $\frac{1}{2}$ '.
13. Antares. — — — — —	18, 20' m.	19, 0' m.	20, 25' m.	25, 26' n.
16. Aquilæ lucida.	5, 48' b.	5, 48' b.	5, 50' b.	7, 54' b.

- α. Aristyllo circa an. 300, ante Chr. Capellæ declin. 40, 0' b.
 β. Hipparcho ante Chr. 128. Reguli longit. 69. 29, 50'. ☾
 γ. Timocharidi ante Chr. 295. Spicæ longit. m 22, 20'.
 ante Chr. 283. Spicæ longit. m 22, 30'.
 Hipparcho ante Chr. 128. Spicæ longit. m 24, 0.
 Menelao anno Chr. 97. Spicæ longit. m 25, 45'.
 Spicæ Declin. 0, 40' m.
 ☾ Dein Albatanio, Chr 879. Reguli longit. Ω. 14', 0. Spatio itaq; an-
 norum 742. grad. 11. 50'. aut potius gr. 11, 30'. propter Reguli lon-
 git. Ptolemaicam Ω 2, 30'; non 2, 10'. sicut olim legerat Astrono-
 mus Raccensis.

Oculi Tauri Longitudo. Anno Christi.

	Hermeti.	25, 17'. ♀.
	Hipparcho.	10, 0. ♀.
140.	Ptolemæo.	12, 40.
851.	Abomasaro.	19, 15.
831.	Thabeto.	21, 17.
	Arzachel.	23, 20.
	Albatanio.	24, 30.
	R. Grostetio.	28, 40.
1316.	W. Evelhamio.	29, 0.

Addit Fixarum Longitudinibus.

	Ptolemaicis gr.	anno Christi
	Alphonfus.	17, 8'. 1303.
	Wymundus	5, 52'. 1310.
	Walterus Vig.	19, 5'. 1447.
	Prima arietis distat ab æqui-	
	noctio verno gr.	25, 40'.
	Hic omnia Walterus Vigornien-	
	sis Ced.	13. inter Digbianos.

Progrediuntur autem Stella Fixæ gradum unum annis solaribus.

1. Hipparcho, Ptolemæo, Theoni, Proclo, & Alfergano. ——— 100.
2. Timocharidi Alexandrino, qui observarat spicam cælestem annis Nabon. 454 & 466. Abdorahmano Salehio, & D. Petavio. 072 five $60^{\frac{12}{10}}$ & 50" quovis anno.
3. Johannidæ Ægyptio, Canonum Hacimicorum conditori ——— $70^{\frac{1}{4}}$.
4. Jahiæ f. Abomanfori, aliisque Probatæ, quam vocarunt, }
Astronomiæ auctoribus: necnon Nasirodino Tusio, Cot- }
bodino Sirasio, Ologbeco Mogolorum domino, Xachol- } 70° & $51''$, $26''$.
gio, Abolphetacho, Abenesdræ, Maimonidæ, & ple- }
risque juniorum. }
5. Chrysococæ in Persicis, & Astron. Anglicis an. Chr. 1300. 68 & $52''$, $23'''$.
6. Astronomis plerisque Arabum sub Mamone principe ——— $66^{\frac{2}{3}}$.
7. Abdorahmano Sophio, Bahodino Chorcio, Alphonso }
regi, Albatanio ex Racca, quæ est Callinicos Mesotopo- } 66° & $54''$, $33'''$.
tamæ, Abdogalilo Segazio, Levi & Zacuto Judæis, & }
Observatorum Maragenfium nonnullis. }
8. Copernico, Mæstlino, aliisque fide illorum --fere 71° . & $50''$, $12'''$, $5''''$.
9. Nonnullis apud Chorcium Arabem. ——— 54.
10. Tychoni Braheo, Keplero, Bullialdo, ex obliquitate Zodi. $gr. 23^{\frac{1}{2}}$ 7° $\frac{7}{12}$. & $51''$.
11. Longomontano. ——— $72^{\frac{1}{3}}$ & $49''$, $54'''$.
12. Gassendo. ——— $70^{\frac{1}{3}}$ & $51''$, $19'''$, $24''''$.
13. Ricciolo in Astr. Reformata, ex obliq. Zodi. $gr. 23, 30', 20''$. $71, 19^{\frac{1}{2}} d. 50', 40'''$.
14. Nobis, & Ægyptiorum Hierophantis. 71° , $9^{\frac{2}{3}}$, mens. & $50''$, $9''^{\frac{1}{4}}$. fere.